

## Dr. Elias To Head Course Six



Professor Peter Elias

Thirty-six year old Dr. Peter Elias took the reins of the MIT Electrical Engineering Department this summer, after the resignation of acting department head, Dr. Jerome B. Wiesner. Wiesner will devote his efforts to the Research Laboratory of Electronics and the new Center for Communication Sciences.

In his new position, Dr. Elias heads MIT's largest department, which includes 70 faculty members, plus 60 lecturers, instructors, and research associates. More than one thousand students are enrolled as undergraduates or graduates in Electrical Engineering courses.

Dr. Elias has been a member of the MIT faculty since 1953, and was a professor of Electrical Engineering and staff member of the RLE prior to his July 1 appointment. He has been active in the field of communication sciences. An authority on information theory, he has made notable contributions in coding theory. His main concern has been analyzing pictures as messages for transmission and processing, and working on the transmission of reliable information over noisy, unreliable communications channels.

Born in New Brunswick, New Jersey, in November, 1923, Dr. Elias attended Swarthmore College from 1940 to 1942, then transferred to MIT, where he received a B.S. in Industrial Management in 1944. After two years in service in the U. S. Navy, he continued his studies at Harvard University, receiving an M.S. in 1948, another master's degree in Engineering Science in 1949, and a Ph.D. in 1950. From 1950 to 1953 he continued studies at Harvard at the post-doctoral level as a Lowell Prize Fellow.

After joining the MIT staff in 1951 as a guest at the RLE, Dr. Elias was appointed Assistant Professor of Electrical Engineering in 1953 and Associate Professor in 1956. He was visiting lecturer in Electrical Engineering during the first half of 1958 at the University of California at Berkeley. His promotion to professor was announced in April, 1960.

## Freshman Dance Is Postponed

The Freshmen Orientation Committee has announced that the committee's dance for all Freshmen has been postponed until Saturday night, October 1st. The reason for the change was a conflict with the Catholic Club's All Tech Acquaintance Dance which was also scheduled for Friday night, September 23.

## Les Brown, Ahmad Jamal Featured for JP Weekend

Les Brown and his "Band of Renown", and Ahmad Jamal, jazz musician, will be the featured entertainers of the annual Junior Prom Weekend, scheduled for November 4-5.

Brown and his group will perform at the Friday night formal dance, to be held in the Statler Hotel Imperial Ballroom. Jamal will appear at the informal dance-jazz concert Saturday evening.

Ticket options for the affair will be available starting during the second week of October for \$2, according to Max Snodderly, junior class president and chairman of the Junior Prom committee.

## 250,000 Gauss

## \$9.5 Million To Build World's Largest Magnet For Air Force

MIT is building the world's most powerful magnet under a \$9,502,000 contract announced this summer by Institute President Julius A. Stratton and Lt. Gen. Bernard A. Shreiver, Commander of the Air Research and Development Command.

Created as a national research center, the MIT Magnet Laboratory will produce extremely strong, continuous magnetic fields in the search for new knowledge about matter and energy.

### Vital Need

"There is a vital need for new basic information in this advanced and important segment of scientific study," President Stratton said. "By means of this far-seeing effort of the Air Force, the nation will have in the MIT installation the most advanced scientific instrument of this type for exploration of the properties of matter." Groups from academic, government and industrial research institutions in the U. S. and visiting scientists from other nations are expected to use the installation.

The laboratory will be able to produce a continuous magnetic field rated at 250,000 gauss, more than 500,000 times stronger

than the earth's magnetic field. These high fields will be tools with which to determine the properties and behavior of atoms, atomic particles, and aggregations of atoms in solid materials, as well as in liquids and gases.

### Complete in 1964

Construction of the laboratory is expected to start about mid 1961, on a site next to the MIT nuclear reactor on Albany Street. Overall construction cost is figured at \$6,078,000. The remaining amount of the contract, \$3,424,000 is to be used for staffing and preliminary research. The laboratory is expected to be in full operation by 1964 with an anticipated annual research budget of \$2,000,000 a year.

Professor Francis Bitter, a pioneer in development of magnets and in the study of high field magnetic phenomena, is resigning his position as Associate Dean of Science in order to assume responsibility for the design and construction of the new laboratory. He will also be chairman of the laboratory's policy committee and will assume new duties as Professor of Geophysics to study the magnetization of the sun and its planets and determine the role of magnetic phenomena in the evolution of the solar system.

### Lax to Head Lab

Director of the Magnet Laboratory will be Dr. Benjamin Lax, head of the division of Solid State Physics at Lincoln Laboratory.

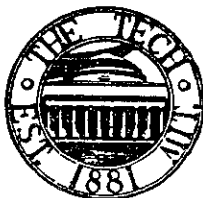
### Pressing Need Cited

An official Institute release declared "A pressing need exists for extremely high continuous magnetic fields. Some 20 years ago Professor Bitter developed at MIT a solenoid capable of sustaining a 100,000 gauss field and constructed a power station of 1.7 million watts required for its operation. Recent work at Lincoln Laboratory and at the existing MIT Magnet Laboratory indicates that fields of about a quarter million gauss could be generated with a reasonable effort."

The impetus for creating the new laboratory arose from the active scientific program in Solid State Physics at the MIT Lincoln Laboratory where many pioneering experiments using conventional magnets and high field pulsed magnets were performed. Dr. Lax said that the need for a more extensive, elaborate, and sophisticated installation for extending these fruitful

(Continued on Page 3)

# The



# Tech

Vol. 80 No. 27

Cambridge, Mass., September 23, 1960

5 Cents

## Foreign Policy Important

## Fassett Receives Vote

## Nixon Over Kennedy In Freshmen Straw Vote

Vice-president Richard M. Nixon handed Senator John Kennedy a decisive 5-3 defeat in The Tech's poll of the entering freshmen held Friday, September 16, at the Activities Midway.

20% of the freshmen passed by The Tech's booth to record 102 votes for Nixon and 62 for Kennedy. In addition, one freshman cast a vote for Dean of Residence Frederick Fassett, stating that the principle issue of the campaign would in his

opinion be housing.

The voters were asked to state whether they were from urban, rural, or suburban areas. The results:

	K.	N.	T.
Urban	30	33	63
Rural	25	52	77
Suburban	7	17	24

Another question asked of each freshman was the political allegiance of his parents. Again the results in table form:

	K.	N.	T.
Repub.	13	57	70

Dem.	36	19	55
Ind.	13	18	31
Didn't Know	2	4	6

There were only four states represented by more than ten voters. The breakdown of voting in them was as follows:

	K.	N.	T.
Mass.	21	6	27
N. Y.	10	17	27
Ill.	4	9	13
Pa.	2	10	12

Voters were also asked to indicate "the most important issue of the campaign." Fifteen mentioned religion, ten Nixon backers and five Kennedy men. The Nixon men were content to simply state their view, while the latter five all penciled notations on their ballots deploring the fact. 66 "voters" mentioned foreign policy, 41 of these being for Nixon, and 25 for Kennedy. Conservatism versus liberalism was mentioned fourteen times, with Kennedy on top among these voters, nine to five. Sixteen of the people polled thought domestic issues such as civil rights were most important, thirteen Nixon men and three Kennedy men. The remaining freshmen regarded personality, economic policy, defense, U. S. prestige, experience, and qualifications as most important.

The Tech readers are cautioned against drawing any definite conclusions concerning the outcome of the election in November.

Six MIT students participating in the "Crossroads Africa" programme spent the summer in four West African countries.

## Priest Schedules Lectures

A philosophy lecture series, "The Nature of Man" will be conducted by Father William A. Wallace, O.P., B.E.E., M.S., Ph.D., S.T.D., on Friday afternoons in room 3-133. Father Wallace will also address the Catholic Club at their regular meeting on Wednesday, September 28, at 5 P.M. in the Miller Room 3-070. The topic for this talk will be "The Catholic Scientist Looks at Evolution."

The lecture series will begin next Friday at 5 P.M. Starting on October 7, a discussion period will be held from 4 to 5 P.M. with the lecture beginning at 5.

As a Lieutenant Commander in the Navy during the latter days of the Pacific campaign, Father Wallace directed the aerial minelaying operation against the Japanese islands, and was awarded the Legion of Merit. He was also present on Tinian Island as operations officer when the first atom bomb flights were made over Hiroshima and Nagasaki.

Father Wallace has been teaching science and religion at St. Stephen's Priory in Dover, Mass.



Rev. William A. Wallace

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**IFC Meeting Scheduled**  
 The next meeting of the IFC will be held October 13. Discussion will be election of a delegate to national IFC convention in Los Angeles in November and the election of an IFC Weekend chairman.

# What would **YOU** do as an engineer at Pratt & Whitney Aircraft?

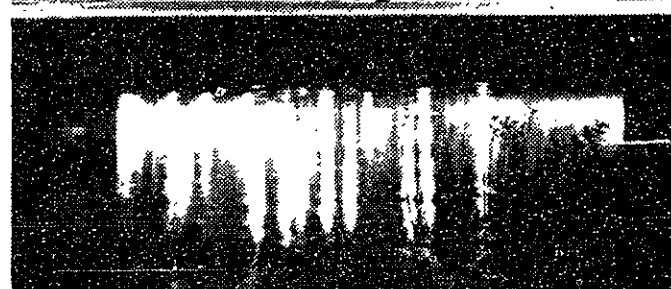
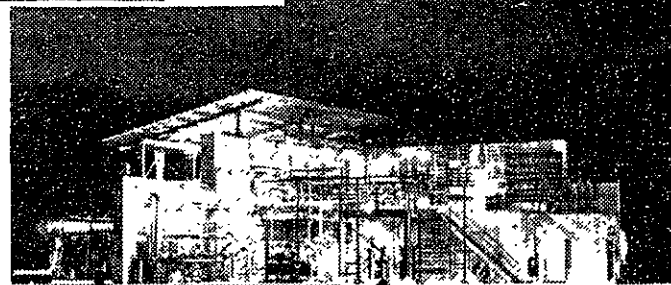
Regardless of your specialty, you would work in a favorable engineering atmosphere.

Back in 1925, when Pratt & Whitney Aircraft was designing and developing the first of its family of history-making powerplants, an attitude was born—a recognition that *engineering excellence* was the key to success.

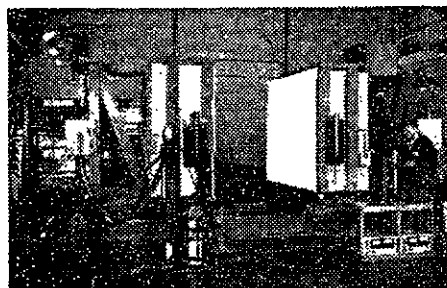
That attitude, that recognition of the prime importance of technical superiority is still predominant at P&WA today.

The field, of course, is broader now, the challenge greater. No longer are the company's requirements confined to graduates with degrees in mechanical and aeronautical engineering. Pratt & Whitney Aircraft today is concerned with the development of all forms of flight propulsion systems for the aerospace medium—air breathing, rocket, nuclear and other advanced types. Some are entirely new in concept. To carry out analytical, design, experimental or materials engineering assignments, men with degrees in mechanical, aeronautical, electrical, chemical and nuclear engineering are needed, along with those holding degrees in physics, chemistry and metallurgy.

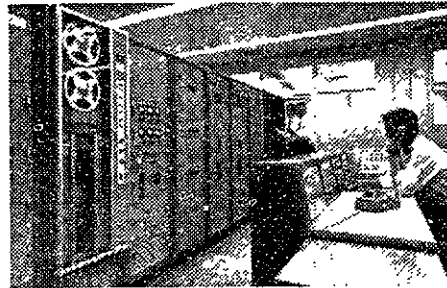
Specifically, what would you do?—*your own engineering talent* provides the best answer. And Pratt & Whitney Aircraft provides the atmosphere in which that talent can flourish.



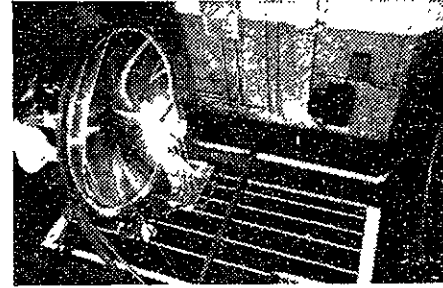
Development testing of liquid hydrogen-fueled rockets is carried out in specially built test stands like this at Pratt & Whitney Aircraft's Florida Research and Development Center. Every phase of an experimental engine test may be controlled by engineers from a remote blockhouse (inset), with closed-circuit television providing a means for visual observation.



At P&WA's Connecticut Aircraft Nuclear Engine Laboratory (CANEL) many technical talents are focused on the development of nuclear propulsion systems for future air and space vehicles. With this live mock-up of a reactor, nuclear scientists and engineers can determine critical mass, material reactivity coefficients, control effectiveness and other reactor parameters.



Representative of electronic aids functioning for P&WA engineers is this on-site data recording center which can provide automatically recorded and computed data simultaneously with the testing of an engine. This equipment is capable of recording 1,200 different values per second.



Studies of solar energy collection and liquid and vapor power cycles typify P&WA's research in advanced space auxiliary power systems. Analytical and Experimental Engineers work together in such programs to establish and test basic concepts.

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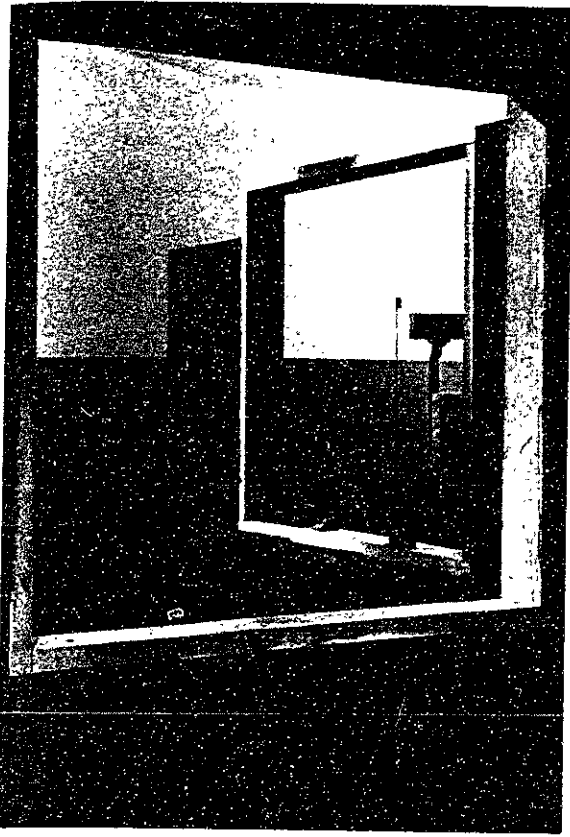
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## No WTBS-FM Yet



In a short while the view pictured above will be Master Control and Studio "B" in the new WTBS radio studios in Walker.

— THE TECH Staff Photo

The debut of MIT's long-awaited FM radio station has once again been postponed. WTBS, MIT's undergraduate station, had expected to branch out into FM broadcasting at the beginning of this term. The station was expected to have a broadcasting radius of approximately four miles.

**License Under Consideration**  
Lew Norton, '62, WTBS Program Manager stated that the application for a license for WTBS-FM is now "under consideration" by the FCC, and that the final ruling is expected soon after the commission reconvenes this month.

WTBS will continue with its usual broadcasting from its studio in the basement of Ware. This term's broadcasting will begin next Friday at 7:00 with an Opening Spectacular dedicated to the major activities at MIT.

**Program Developed**  
WTBS announcer Marley Chiller will discuss fall plans with the student and faculty heads of many of the major campus activities.

The second half of the two-hour program will be devoted to a question period, during which listeners may phone in their questions. After this program, WTBS will continue with its five-hour Nite Owl program.

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## Sigwart '63, Severely Injured In Amateur Rocket Experiment

Charles D. Sigwart, '63, was seriously injured September 2 when a solid propellant mixture he was handling exploded, destroying his home lab and breaking windows throughout the house. Sigwart was a student in Aeronautical Engineering and a resident of East Campus.

His left hand and part of his right hand were torn away in the blast, and he has lost the sight of his left eye; doctors are trying to save the sight of his right eye, which was badly burned, but the prospects seem dim.

Sigwart, from Phoenix, Arizona, apparently was packing his solid propellant, a mixture of zinc sulphide and sulfur, into the rocket body when the explosion occurred. Friends said that Sigwart was quite experienced in the handling of the type of materials he was using. He was a member of the Explorer Scout Rocket Club and active in the Amateur Rocket Research Organization.

After the blast, Sigwart was led from the house by a child playing across the street and was aided by neighbors. After Sigwart left the house, a second explosion occurred, starting a small fire.

Sigwart was alone at the time of the explosion, his mother being in the hospital and his father out of town. His father was at his bedside when he regained consciousness a day later and some hope was voiced for the preservation of his right eye.

## 2000 Learn About 704

More than half the students who enter the Institute next term will be schooled in digital computer programming before they leave, Dr. Philip Morse, Director of the Computation Center said today.

Over 2000 students and faculty members from MIT and neighboring colleges learned to program the 704 in the three years since its installation in 1957. This year thirty percent of the entering freshmen applied for a course in introductory programming. The new 709 which can outstrip its predecessor, the 704, in program capacity, will offer even more students the opportunity to learn programming.

### 704 Widely Used

In the past, as researchers in various fields became acquainted with the 704 and learned to program it, they developed many new methods to apply computers to their own work. Simulation of automobile traffic flow and estimation of short-term changes in demand in the poultry market are among the problems to which the 704 has been recently applied.

### Use Doubles in 2 Years

Use of the 704 doubled in two years and would have tripled had more time been available. Since last fall, it was in use on an around the clock basis.

### Technique Lists Plans

1. *Technique 1961*, the MIT Centennial Edition of the year-book, will hold an option sale in Building 10 lobby during the week of Monday, September 26th.

2. Senior portraits for *Technique 1961* will be taken from October 31st to November 4th. All students concerned will be contacted by mail several weeks in advance of this date with an announcement covering all the details of the program.

3. Fraternity group shots for *Technique 1961* will be taken during the evenings of November 1, 2, and 3. Fraternity presidents will be contacted in late October concerning all the necessary details.

Fall officially began yesterday at 9:00 p.m. Winter will begin on December 21.

## Magnet Lab In 1964

(Continued from Page 1)

ful techniques not only in the solid state area but in others as well was clearly recognized. The Air Force realized the importance and potentialities of the program and has enthusiastically supported the work.

Electrons in the presence of a magnetic field behave differently in solids than, for example, in ionized gases. The frequency of precession about the field is often much higher than it is for the same electron in a gas. Furthermore, this frequency can change if the direction of the magnetic field is changed relative to the crystalline axes of the solid.

By measuring these frequencies, using microwaves and infrared radiation, scientists are able to unlock the complexities of the electrical and magnetic properties of many materials.

### All-Tech Dance Tonight

The annual all-Tech Acquaintance Dance is being held tonight in Morss Hall of Walker Memorial from eight to twelve o'clock.

This dance is sponsored annually by the Technology Catholic Club for the entire student body.

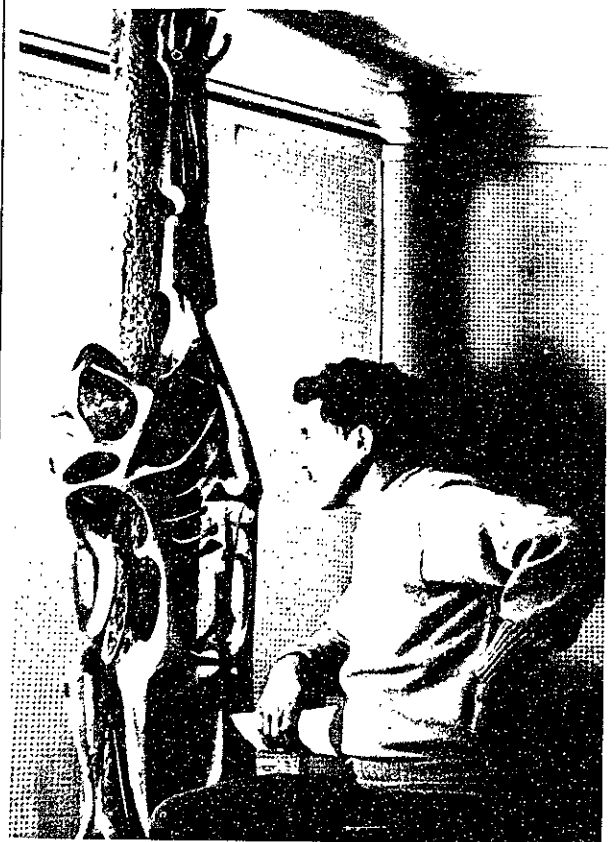
Girls have been invited from all the schools in the greater Boston area.

Admission will be \$1.25. tickets available at the door.

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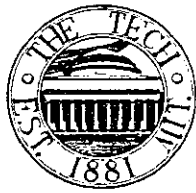
To all our regular customers and incoming students we will allow a ten percent discount upon presentation of your MIT Registration Certificates. This is for a limited time only.

## Crimson Men's Shop

24 Boylston Street Harvard Square



# The Tech



## Thoughts On Residence

With Rush Week safely past for another year, but still fresh in the minds of all concerned, perhaps now is an ideal time for some long-range thought on this perennial blight, with an eye, in general, to where our residence system is headed.

There can be no doubt that Rush Week as it now exists is most undesirable. The shortness of the time available brings great pressure to bear on both the new men and the fraternities, certainly not conducive to making the important decisions that are made at this time. It also means that if houses choose to put up a facade of one sort or another, an incoming freshman has very little chance of penetrating it. The freshmen at this time are as poorly qualified as they ever will be to make decisions regarding their living group. Without benefit of experience or even of orientation, they arrive with a wide variety of preconceived notions concerning fraternity life, most of them totally erroneous. Having Rush Week and pledging at the beginning of a man's MIT career means that the term when he is a fraternity pledge and his term of adjustment to MIT are one and the same. The demands placed on the man at either time are abnormal; to combine the two is asking a great deal of our freshmen.

It is one thing to insist that Rush Week not come at the time it does, but quite another to find a place for 325 freshmen for the time from the beginning of the year to the time when Rush Week *should* be held. A little thought reveals that our present dormitory system can in no way answer this problem. There is just getting under way on this campus, however, a drive called the Second Century Fund. Of the \$66 million which is the Fund's target, \$12 million has been earmarked for improvement of student housing and community facilities.

In the opinion of *The Tech*, it is clearly indicated that at least enough of this be put into undergraduate dormitories to insure that all students can be housed in the dormitory system for the entire duration of the first year.

The residence system which we envision, then, would consist of dormitories housing all freshmen (and upperclassmen choosing to live there), the new women's dorm housing the coeds, and the fraternities housing all upperclassmen who choose to live there. Rush Week would be held in September as usual, but would be for sophomores.

Such an arrangement, we feel, would go a long way toward alleviating the problems raised by our present system. Giving the freshmen all year to make their decision as to permanent living group would remove much of the chaos of the rushing period and would introduce a rather more sane approach to the problem. The rushees would have more to go on than two or three confused days — they would have a year to observe the various houses in action as they really are, not as they choose to be for four days in September. Eventually the fraternities would be populated entirely with men who had spent at least a year on campus in the dorms. This could not help but pull the fraternities closer to the MIT community. Then too, the first term of the sophomore year is perhaps the best term of any for the pledging period — the pledge is adjusted to life at MIT, but is not yet sufficiently far into his professional courses so that he has time for nothing else.

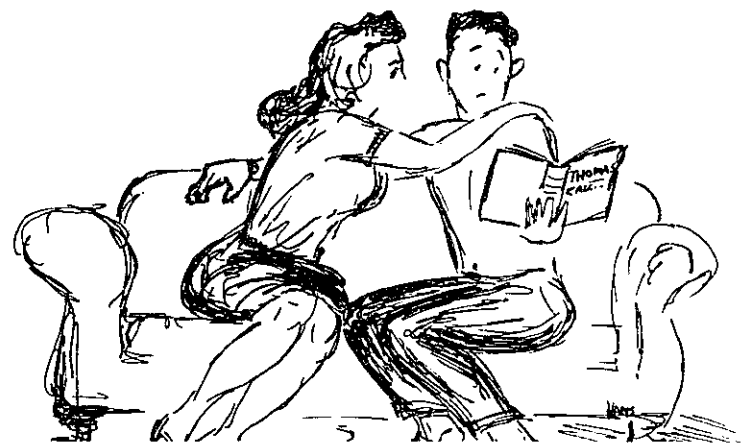
Such thought as this is, as originally stated, long range. Such changes as we propose could not take place next year, or the year after that. However, their effect, when and if they do take place, will be an important forward step in the building of an Institute community. We invite your comment.

**The Tech**

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"I said, I've got a quiz Monday at 9 A.M."

## KIBITZER

North	East	South	West
♠ J 8 7 6 2	♠ A 5 3	♠ K Q 4	♠ 10 9
♥ A	♥ Q 10	♥ K 4 3 2	♥ J 9 8 7 6 5
♦ K Q 9 7 5 4 2	♦ —	♦ A 6	♦ J 10 8 3
♣ —	♣ Q J 9 8 6 5 3 2	♣ A K 7 4	♣ 10

CONTRACT: 6 NT by South; OPENING LEAD: spade 10.

The hand shown above, played last spring at the MIT Bridge Club, illustrates the necessity of thinking ahead and considering the possibilities of bad splits while there is still time to do something about them.

North played low on West's spade opening; East put up the A. Declarer unthinkingly played the 4, and with this innocent-looking mistake lost all hope of making the contract. East wisely returned a heart to dummy's A. Declarer took 2 spades to the KQ, and then played the A to diamonds. Great was his gloom when the suit failed to split. He discarded 3 of the board's diamonds on the AK of clubs and the K of hearts, but was left with still another small diamond in dummy which was eventually lost to West's J.

An opening heart lead would have placed the contract beyond South's reach, but, given the spade lead, South could have made the hand. A little reflection would have told him that the spade 4 would become a much-needed entry to the board's

J if the diamond suit split 4-0, whereas if it split 3-1 or 2-2, he would need only two spade tricks anyway. Therefore he should play the K or Q of spades at trick 1. East can return a heart again (or anything else he cares to), after which South takes the Q, J, and 2 small spades, discarding a heart and a club from his own hand. A small diamond to South's A then reveals the bad split, but, thanks to proper planning, declarer still has a fighting chance. 3 of the board's small diamonds are pitched on the heart K and the club AK. On these last 2 cards West is squeezed. He must hang on to all his diamonds to prevent North's suit from running, and in order to do this he must discard all his hearts. South's heart 4 then sets up for the discard of the board's last small diamond and South is home with the contract.

Elwyn R. Berlekamp, '62

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## Making The Scene

With al

The lucky few who don't go to mixers this weekend will find entertainment much the same fare as before, except for two noisy war movies and a little more music.

### Procenium Proceedings

"Tenderloin" at the Shubert is undergoing revision before reaching Broadway. For another two and a half weeks, Maurice Evans will be proving that director George Abbott can make even old Shakespearians sing and dance acceptably.

Bert Lahr (yes, Virginia) is featured as Bottom in Midsummer's Night Dream at the Colonial starting Monday. This is the American Shakespeare Festival (the Stratford, Conn. people) production.

The Wilbur still has "Raisin in the Sun". If you haven't seen this drama about a Chicago Negro family, do.

### Clef Clues

Mantovani will be serving up molasses at Symphony Hall next Sunday. Buy tickets now for this treacly treat.

Roland Hayes, a tenor of some distinction, will appear next Sunday at Jordan Hall. Be advised that this is a benefit for the Cardinal Cushing Fund.

Dave Brubeck is coming to Kresge Columbus Day. If you don't want to be left out in the cold, get your tickets now.

"Hiroshima, Mon Amour" is still my nominee for the best film in town.

The Telepix is now screening a Japanese opus called "The Mistress". Hideko Takamine portrays a girl who is persuaded to become the paramour of an older man. The neurotics begin when she finds out that he's married.

Our man didn't like the ending, but he laughed liked mad at "School for Scoundrels", still at the Exeter.

There is a string of dramatized off-color jokes barely connected by a plot at the Kenmore. It's called "Carry On Nurse".

Sunday brings "Aparajito", a sequel to "Pather Panchali," to the screen of the Brattle.

"Khovanschina," an opera by Mussorgsky about an army revolt in Czarist Russia, has been arranged for film by Comrade Dmitri Shostakovich. This Soviet effort is well worth seeing at New England Mutual Hall until next Sunday.

"Song Without End" at the Kenmore, as of next Wednesday, is also musical. English box-office idol, Dirk Bogard, makes his Hollywood debut as the great lover and pianist, Frank Liszt. This is a straight keyboard to bedboard treatment.

"Fast and Sexy" Gina Lollabrigida comes to the Orpheum Wednesday. Dale Robertson (of "Wells Fargo" fame) obscures the view as does Vittorio Di Sica (who should know better).

Gina's companions of the underclad-world, Brigitte Bardot and Marilyn Monroe, are still exposed at the Beacon Hill and Metropolitan, respectively.

Ammunition is being expended rapidly at the Keith Memorial. "All the Young Men" (and they do mean all) features Ingemar Johansson, Alan Ladd, Sidney Poitier and Mort Sahl. Duck, here comes a bomb!

### LSC

LSC Classic Series opens tonight with "La Strada" starring Giulietta Massina and Anthony Quinn. I am planning to see this story of a feeble-minded girl and a circus strong man for the fourth time.

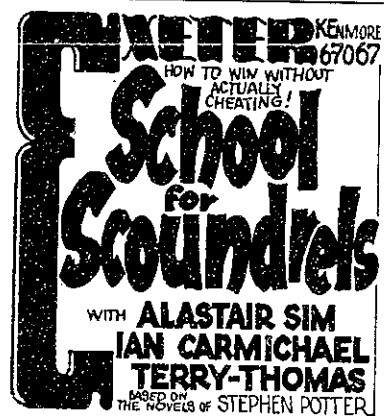
LSC Entertainment Series premieres tomorrow with "Anatomy of a Murder". There is much anatomy and little murder. Unbelievably, the book is not killed. I liked the movie.

## Dramashop Plans Stagecraft Class

Dramashop will offer a stagecrafting workshop tomorrow from two to four backstage at the Little Theater. There will be instruction in lighting, flat designing, and special techniques of construction for their theater problems.

Dramashop will begin its fall term with a series of one act plays to be presented in the Little Theater on October 7. A meeting for people interested in working in this series will be held this evening at eight o'clock in the Little Theater. Tryouts are scheduled for Monday.

Several Elizabethan and Restoration comedies are also being considered for future full length productions.



## Next Week:

Review of "Hiroshima Mon Amour"

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- Nov. 20 ☐ THEODORE BIKEL  
Sun., 8:30, Symphony Hall
- Dec. 11 ☐ PETE SEEGER  
3 P.M., John Hancock Hall  
8:30 P.M., Sun.
- Dec. 17 ☐ SABICAS  
Sat., 8:30, Jordan Hall
- Jan. 14 ☐ EARL SCRUGGS—JOAN BAEZ—  
LESTER FLATT—Foggy Mt. Boys  
Sat., 8:30, Jordan Hall
- Feb. 4 ☐ CALEDONIA—Singers and Dancers of Scotland  
Sat. 8:30, John Hancock Hall
- Feb. 11 ☐ WILLIAM CLAUSON  
Sat. 8:30, Jordan Hall
- Mar. 4 ☐ SHOSHANA DAMARI  
Sat. 8:30, Jordan Hall
- Mar. 24 ☐ THE WEAVERS  
Fri. 8:30, Symphony Hall

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# GRAND OPENING Sammy White's BRIGHTON BOWL

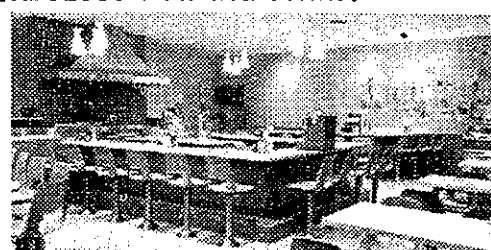
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vs.



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MON.-FRI. 10 A.M.-3 A.M.  
SAT. 8:30 AM.-12 Midnight  
SUN. 1 P.M.-12 P.M.



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## Soccer Defenses Remain Unknown, Says Batterman

The MIT soccer team will carry a strong forward, a good goalie and an untested defense into its first game next Saturday, according to coach Charles Batterman. Deprived by graduation of the services of four of six men named last year to the All-New England team, the squad will be seeking to improve on last season's five victories.

### Two All-Stars Return

Outside left Cord Ohlenbush, '62 and goalie Georgio Emo, '62 return from the list of New England all-stars. Captain Arturo Marques, '61, inside right, Phil Robinson, '61 and halfback Dirk Berghager, '62 are expected to contribute to the team's overall strength.

In an attempt to find a solution to the pressing defensive problems, Batterman has devoted a large portion of the practice sessions to defensive maneuvers. Last year the defense was carried, to a great extent, by All-American Fouad Malouf, '60.

### Runners Lack Depth

With prospects for improving on last season's 4-7 mark dimmed by a lack of depth, coach Art Farnham's cross country team will face Bates, Boston College, Brandeis and Tufts in a Franklin Park meet next Friday.

George Withbroe, '61 and Tom Goddard, '63 will pace the harriers with help expected from such men as Captain Herb Wegener, '61, Roger Hinrichs, '63, Steve Banks, '62, Paul Robertson, '61 and Herb Grieves, '61.

## Tech Yachtsmen Back From Tour

Pete Gray, '61 and Don Nelson, '61 the members of the MIT varsity sailing squad among a group of six men who went to England and Scotland this past summer to race against the best British teams reported mixed success. Along with three men from Princeton and one from Dartmouth, the sailors representing the Intercollegiate Yacht Racing Association of North America toured England, sailing in matches for two major trophies and barnstormed against teams put up by various yacht clubs.

The yachtsmen were out to avenge the first British victory last year since 1954. They raced in a great variety of boats and under widely varying conditions, far different from local waters. In the five weeks Gray and Nelson were in England, they won about two-thirds of the local races but lost in the competition for the Lipton Cup on the Welsh River and the British-American Cup in Chichester Harbour.

Four MIT faculty members spent the summer in India conducting a management seminar.

## 16 Games Slated

## IM Football Begins Tomorrow

Eight games tomorrow will kick off the month-long intramural football season on Briggs Field with eight more contests scheduled for Sunday. Game times both days will be 1:30 and 3:30 p. m., according to IM football manager Tom Gerrity, '63.

A total of 37 teams will compete in the eight leagues comprising the "A" and "B" divisions. In general a higher caliber game is played in the "A" division, since the teams are chosen from among the previous season's standouts. Seventeen teams have been named to the "A" division, and are divided into three leagues of four and one of five entries. Each of the four "B" leagues will contain five teams.

Playoffs for the intramural championship, pitting the league winners in a single elimination tournament, will begin the weekend following the completion of the regular season.

Defending the "A" division crown will be Beta Theta Pi. Lambda Chi Alpha holds the "B" title.

### Swim Team Tryout Rally

Undergraduates intending to try out for either the freshman or varsity swimming team are urged to attend the pre-season swimming rally in the conference room of the du Pont Athletic Center, Wednesday, September 28, at 5 p. m.

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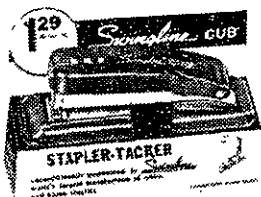


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